Les 2èmes Journées du Réseau France Microtubules  
(French Microtubule Network)  
6 et 7 juillet 2015, Université Grenoble Alpes

LUNDI 06 JUILLET 2015 - AMPHITHEATRE BOUCHERLE – UNIVERSITE GRENOBLE ALPES/CHU

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker and Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9h00</td>
<td>Welcome &amp; Registration</td>
<td></td>
</tr>
<tr>
<td>9h30-10h30</td>
<td>Seminar</td>
<td>Invited Speaker Niels GALJART (Rotterdam, The Netherlands)</td>
</tr>
<tr>
<td>10h30-11h</td>
<td>SESSION 1</td>
<td>MICROTUBULE ASSEMBLY AND REGULATIONS (I)</td>
</tr>
</tbody>
</table>

- EB1-gold reveals the GTP-cap architecture of growing microtubule ends. Frank BAZILE
- Direct evidence for the interaction of stathmin with microtubules in cells: an investigation made by real-time confocal imaging coupled to FRET and FRAP spectroscopies. Gilles BREUZARD

COFFEE BREAK

11h30 – 12h45  SESSION 2  MICROTUBULE ASSEMBLY AND REGULATIONS (II)

- EB1 links microtubule network organization and touch response in Arabidopsis thaliana. Frédéric COQUELLE
- Unravelling the mechanoperception and transduction pathway controlling the microtubule response to mechanical stress. Stéphane VERGER
- Investigating the position of GCPs 4, 5, 6 in the Gamma-tubulin ring complex. Dorian FARACHE,
- Microtubule and actin organization by the neuronal MAP tau. Isabelle ARNAL
- Role of tubulin polyglutamylation in neurodegeneration. Maria M. MAGIERA

LUNCH
13h45 – 15h30  POSTER SESSION

15h30-16h30  SESSION 3  MICROTUBULES AND THEIR REGULATORS: NEW THERAPEUTIC TARGETS? (I)

• Microtubule-bound septins together with tyrosinated and polyglutamylated tubulin confer cell adaptation to Taxol® and impact on cell motility. Anita BAILLET

• The role of primary cilia in colon homeostasis and tumor development. Ruizhi TANG

• End-binding 1 protein overexpression correlates with glioblastoma progression and sensitizes to Vinca-alkaloids in vitro and in vivo. Raphael BERGES

• Microtubule-associated tumor suppressor ATIP3 interacts with EB1: clinical relevance in breast cancer. Clara NAHMIAS

17h15-18h00  SESSION 4  MICROTUBULES AND THEIR REGULATORS: NEW THERAPEUTIC TARGETS? (II)

• IPP51, a chalcone acting as a microtubule inhibitor with in vivo antitumor activity against bladder carcinoma. Véronique MARTEL-FRACHET

• A new LIMK inhibitor stabilizes microtubules and has anticancer activity. Chloé PRUNIER

• Photoswitchable microtubule inhibitors for localised optical control of MT dynamics, mitosis, and cell death. Oliver THORN-SESHOLD

20H00  DINER  PRISE DE LA BASTILLE
MARDI 07 JULLET 2015 - AMPHITHEATRE BOUCHERLE – UNIVERSITE GRENOBLE ALPES/CHU

9h00-10h30    SESSION 5    MICROTUBULES AND CELL DIVISION (SPINDLE ORGANIZATION)

• Proper timing of spindle assembly is critical for correct chromosome alignment in mouse oocytes. Isma BENNABI

• The microtubule depolymerase Kif2 (kinesin 13) localizes to a cortical structure which positions the spindle asymmetrically during unequal cleavages.  Janet CHENEVERT

• Yeast GSK-3 kinase regulates astral microtubule function via phosphorylation of the microtubule-stabilizing kinesin Kip2. Dimitris LIAKOPOULOS

• Enscinsin/MAP7 is required for various aspects of cell division.  Régis GIET

• Huntingtin is required for mitotic spindle orientation.  Sandrine HUMBERT

• Different ways to build a mitotic spindle in the mouse brain: from normal to pathological conditions.  Véronique MARTHIENS

      COFFEE BREAK

11h00-12h15    SESSION 6    MICROTUBULES, CELL MORPHOGENESIS AND DIFFERENTIATION

• Microtubule-Associated Protein 6 (MAP6) mediates neuronal connectivity through Semaphorin 3E-dependent signaling for axonal growth. Jean-Christophe DELOULME

• A role for GSK3β in controlling the Navigator-Trio-mediated crosstalk between microtubule dynamics and actin remodelling during neuronal morphogenesis.  Jabran BENHARI

• The characterization of a G2/M TRM isoform sheds new light on the preprophase band function in plant cell division plane positioning. Martine PASTUGLIA

• Motor-driven marginal band coiling promotes cell shape change during platelet activation.  Karin SADOUl

• Cell anisotropy and microtubules. Vincent MIRABET

      LUNCH
### 13h15 – 14h30  POSTER SESSION

### 14h30-15h45  SESSION 7  MICROTUBULES, ORGANELLE TRANSPORT AND CELL MIGRATION

- Regulation of cortical microtubule capture and cell migration by a microtubule minus end-associated protein complex. Habib BOUGUENINA

- Kinesin-14 transports large DNA molecules through the cytoplasm of eukaryotic cells Giovanni CAPPELLO

- Microtubule dependent nuclear domain organization during skeletal muscle fibers development. Vincent GACHE

- Huntington's disease: huntingtin and the control of intracellular dynamics. Frédéric SAUDOU

- The structure of apo-kinesin bound to tubulin links the nucleotide cycle to movement. LuYan CAO

| COFFEE BREAK |

### 16h15-16h45  CLOSING SESSION  ORGANIZATION OF THE NEXT FRENCH MT NETWORK MEETING, 2017 |